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Ontario

Ministry of
Northern Development
and Mines

Sean Conway Minister of Mines

ONTARIO GEOLOGICAL SURVEY

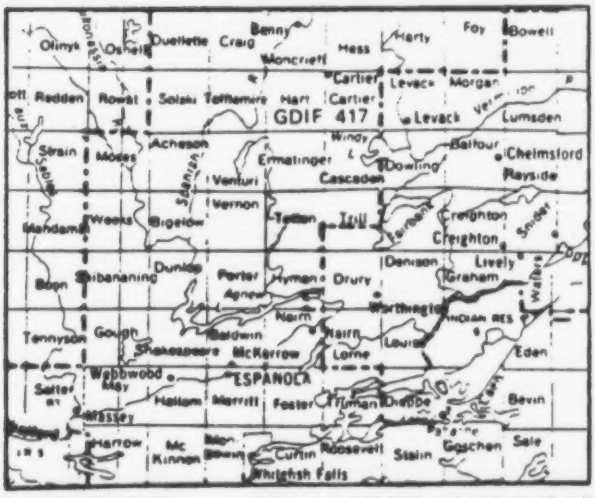
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 417

TOTTEN TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

NTS Number 41 [illegible]

Mining Claim Map Number M 1161

This project is part of the Canada-Ontario Mineral Development Agreement (COMDA), which is a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey

1988: Totten Township, District of Sudbury; Ontario Geological Survey, Geological Data Inventory Folio 417, compiled by the staff of the Resident Geologist's Office, Sudbury, 16p. and 1 map.

Original Compilation by: Lacey, J. Kerry, June 11, 1987

Date	Page Revised	Revised by

Date	Page Revised	Revised by

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ACCOMPANYING MAPS

Property Location Map 1 map

Exploration Data Map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	**20.116 8**	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	**2.589 988**	km^2
1 ha	2.471 054	acres	1 acre	**0.404 685 6**	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	**0.028 316 85**	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	**0.764 555**	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	**0.568 261**	L
1 L	0.879 877	quarts	1 quart	**1.136 522**	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	**28.349 523**	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.048 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 048 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	**34.285 714 2**	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	**1.714 285 7**	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	K.L.
2	Assessment Files Research Office, Toronto	N.A.	K.L.
3	ODM General Index; 9 Volumes	Yes	K.L.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	K.L.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	K.L.
6	ODM Industrial Mineral Reports	No	K.L.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	K.L.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	K.L.
9	Newspaper Clippings File	No	K.L.
10	GSC Index to Publications	Yes	K.L.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	K.L.
12	OGS Index Maps	Yes	K.L.
13	Source Mineral Deposit Records (O.G.S.), Mineral Occurrences File	No	K.L.
14	Author - Subject Articles File	Yes	K.L.
15	Miscellaneous Papers: ODM & OGS	Yes	K.L.
16	ODM Geological Circulars: OGS Study Series, Reports	Yes	K.L.
17	ODM Preliminary Reports: ODM Bulletins	Yes	K.L.
18	ODM – OGS Open File Reports	Yes	K.L.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	K.L.
20	OGS Aggregate Resources Inventory Papers	N.A.	K.L.
21	OGS Mineral Potential Maps	Yes	K.L.
22	Theses on File, Sudbury	Yes	K.L.
23	Aerial Photographs on File, Sudbury	Yes	K.L.

METALS AND MINERALS REFERENCES LIST

Δ anh. . . . . .Anhydrite	Δ fu. . . . . .Fuchsite	Δ Ni. . . . . Nickel	Δ st . . . . . .Stone
Δ ank. . . . . .Ankerite	Δ gn. . . . . Galena	Δ Nb . . . . . .Niobium	Δ talc. . . . . .Talc
Δ anna . . . . . Annabergite	Δ gt . . . . . Garnet	Δ Pd . . . . . .Palladium	Δ Te . . . . . Tellurium
Δ ap. . . . . .Apatite	Δ goe . . . . . .Goethite	Δ peat . . . . . .Peat	Δ td. . . . . Tetrahedrite
Δ arg . . . . . Argentite	Δ Au . . . . . Gold	Δ pent . . . . . .Pentlandite	Δ th. . . . . .Thorite
Δ As . . . . . .Arsenic	Δ gf. . . . . .Graphite	Δ Pt. . . . . .Platinum	Δ Th . . . . . .Thorium
Δ asp . . . . . .Arsenopyrite	Δ gl . . . . . Gravel	Δ py . . . . . .Pyrite	Δ thuc . . . . . Thucholite
Δ asb . . . . . .Asbestos	Δ gyp. . . . . .Gypsum	Δ pyl . . . . . Pyrochlore	Δ ti . . . . . Titanite
Δ ba. . . . . .Barite	Δ hem . . . . . Hematite	Δ pyrl . . . . . .Pyrolusite	Δ Ti. . . . . Titanium
Δ be. . . . . .Beryl	Δ il . . . . . .Ilmenite	Δ po . . . . . .Pyrrhotite	Δ tour . . . . . .Tourmaline
Δ Bi. . . . . .Bismuth	Δ Fe . . . . . .Iron	Δ q . . . . . Quartz	Δ trap . . . . . .Trap rock
Δ bn . . . . . .Bornite	Δ IF. . . . . Iron Formation	Δ qcv . . . . .Quartz carbonate vein	Δ W. . . . . Tungsten
Δ bran . . . . . .Brannerite	Δ jas . . . . . Jasper	Δ ra. . . . . .Radioactive minerals	Δ uran . . . . . Uraninite
Δ bruc . . . . . .Brucite	Δ kaol . . . . . .Kaolinite (kaolin)	Δ RE . . . . . .Rare Earths	Δ U . . . . . .Uranium
Δ Cd . . . . . Cadmium	Δ ky . . . . . Kyanite	Δ sd. . . . . Sand	Δ verm . . . . . .Vermiculite
Δ calc. . . . . .Calcite	Δ Pb . . . . . Lead	Δ sgl . . . . . Sand and gravel	Δ Y . . . . . Yttrium
Δ carb . . . . . .Carbonate	Δ lim . . . . . Limonite	Δ ss . . . . . .Sandstone	Δ Zn . . . . . .Zinc
Δ cel . . . . . .Celestite	Δ Li. . . . . Lithium	Δ scap . . . . . Scapolite	Δ zr. . . . . Zircon
Δ cc. . . . . .Chalcocite	Δ mgst . . . . . .Magnesite	Δ shee . . . . . .Scheelite	
Δ cp. . . . . .Chalcopyrite	Δ mag . . . . . .Magnetite	Δ serp . . . . . Serpentine	
Δ ch. . . . . .Chert	Δ mc . . . . . Malachite	Δ sh. . . . . .Shale	
Δ clay . . . . . .Clay	Δ Mn . . . . . Manganese	Δ sid . . . . . Siderite	
Δ Co . . . . . Cobalt	Δ mb . . . . . .Marble	Δ si . . . . . .Silica	
Δ cob. . . . . Cobaltite	Δ mar. . . . . Marcasite	Δ Ag . . . . . .Silver	
Δ cb. . . . . .Columbite	Δ ma . . . . . .Marl	Δ sl . . . . . Slate	
Δ Cu . . . . . .Copper	Δ mi . . . . . Mica	Δ sm . . . . . .Smaltite	
Δ cor . . . . . Corundum	Δ ml . . . . . .Millerite	Δ sod . . . . . Sodalite	
Δ dol . . . . . Dolomite	Δ mo . . . . . Molybdenite	Δ spec . . . . . Specularite	
Δ ep. . . . . Epidote	Δ Mo . . . . . .Molybdenum	Δ sp. . . . . .Sphalerite	
Δ ery . . . . . Erythrite	Δ mon . . . . . Monazite	Δ spd . . . . . .Spodumene	
Δ fel . . . . . .Feldspar	Δ ne. . . . . Nephelite (nepheline)	Δ staur . . . . . .Staurolite	
Δ fl . . . . . .Fluorite (flurospar)	Δ nc. . . . . .Niccolite	Δ stib. . . . . Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

TOWNSHIP TOOTEN

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks

GDIF FORM NO. 1

TOTTEN TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY		
COMPANY/AUTHOR (file number)																			
1	Noranda Mines Ltd. (Drury 0027)											54[1]							

[1] No Anomalies

GMF FORM No. 2

TOTTEN TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

GDIF FORM NO. 3

TOITEN TOWNSHIP 6

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDIF FORM NO. 4

TOTTEN TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

Sudbury

ODM GENERAL INDEX SEARCH

Words searched

NORANDA MINES LTD.
NORANDA EXPLORATION LTD.
TOTTEN TOWNSHIP

Index Volume	Listing	Report Volume	Part	Page
9	TOTTEN TP., Sudbury Dist.			
	Geology of the Sudbury-Espanola Area	S016		
	Geology of the Sudbury-Manitoulin Area	GR166		

GDIF FORM NO. 6

GDM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

TOTTEN TOWNSHIP

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D.	1978	Sudbury-Manitoulin Area	O.G.S. Map 2360	1" = 2 miles
	1965 & 67	Cartier Sheet	O.D.M. Map P.287	1" = 2 miles
Card, K. D., Lumbers, S. B.	1974-75	Sudbury-Cobalt Geological Compilation (revised)	O.G.S. Map 2361	1" = 4 miles
Choudhry, A. G.	1983	Totten Tp.	O.G.S. Map P.2601	1" = ½ mile
Dressler, B. O.	1983	Sudbury Mining Area, West Part	O.G.S. Map P.2602	1:50 000
Thomson, J. E.	1961	Espanola Sheet	O.D.M. Map P.105	1" = 2 miles
		GEOPHYSICAL MAPS		
G.S.C. - O.D.M.	1965	Aeromagnetic Map - Cartier Aeromagnetic Map - Espanola	1524G 1523G	1" = 1 mile 1" = 1 mile
Gupta, V. K.	1981	Bouguer Gravity and Generalized Geological Map of the Sudbury-Onaping Lake Area	O.G.S. Map P.2482	1:100 000
O.D.M. - G.S.C.	1965	Aeromagnetic Map - Sudbury Sheet	7067G	1" = 4 miles
O.G.S. - G. S.C.	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey, Sudbury	Map P.1610	1:250 000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
E.M.R.	1975 1975	Topographic Map, Cartier Sheet Topographic Map, Espanola		1:50 000 1:50 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Gartner, J. F.	1978	N.O.E.G.T.S. Data Base Map, Cartier	Map 5000	1:100 000
	1980	N.O.E.G.T. Study 94, Cartier		
	1978	N.O.E.G.T.S. Data Base Map, Espanola	Map 5002	1:100 000
	1980	N.O.E.G.T. Study 99, Espanola		
	1978	N.O.E.G.T.S. General Construction Capability Map, Cartier	Map 5004	1:100 000
		MINERAL POTENTIAL MAPS		
O.G.S. and Mineral Resources Branch	1982	Mineral Potential Map of Ontario East Central Sheet	OFR 5328	1" = 16 miles
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sudbury Sheet and Part of North Bay Sheet	O.G.S. Map P.1512	1:250 000
		GEOCHEMICAL		
		No data available, June 12, 1987		
		GEOLOGICAL REPORTS AND MAPS		
Adlington, R.	1982	Totten Tp., Sudbury Data Series	O.G.S. Map P.2550	1" = 1 mile
Bell, R.	1891	The Laurentian and Huronian Systems North of Lake Huron	O.D.M. AR 1	pp. 63-94
	1893	Explorations North of the Manitoulin Island Sheet, Ontario	G.S.C. AR	pp. 33-39
Card, K. D.	1978	Geology of the Sudbury-Manitoulin Area, Districts of Sudbury and Manitoulin	GR 166 Map 2360	1" = 2 miles

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Card, K. D., Innes, D. G., and Debicki, R. L.	1977	Stratigraphy, Sedimentology and Petrology of the Huronian Supergroup in the Sudbury-Espanola Area	O.G.S. Study 16	
Choudhry, A. G.	1984	Geology of Hart, Ermatinger and Totten Townships	OFR 5525	
Collins, W. H.	1925	North Shore of Lake Huron	G.S.C. Mem. 143	
Logan, W. E.	1849	Report on the North Shore of Lake Huron	G.S.C. Separate Rept. 392	
Moore, E. S.	1929	Ore Deposits Near the North Shore of Lake Huron	O.D.M. AR 38, pt. 7	
Quirke, T. T.	1917	Espanola District, Ontario	G.S.C. Mem. 102	
		JOURNALS, ARTICLES, THESES, TECHNICAL REPORTS		
Boissonneau, A. N.	1968	Glacial History of Northeastern Ontario II. The Timiskaming-Algoma Area	C.J.E.S. Vol. 5	pp. 97-109
Cooke, H. R.	1951	Sulphide Deposits West of Sudbury; B.Sc., Queen's University	MP 2	
Ginn, R. M.	1960	The Relationship of the Bruce Series to the Granites of the Espanola Area	Sudbury Theses File	
Siemiatkowska, K. M.	1970	Bibliography of Huronian Geology Covering the Area from Sault Ste. Marie to the Grenville Front	Sudbury Theses File	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages

NOTES AND ADDENDA

Aerial Photographs Index

Sudbury

Scale 1" = ½ mile

Year	Roll	Line	Number
1977	89	4623	140-147
	92	4622	179-186
	89	4621	168-174
	65	4620	81-87
	92	4619	159-165
	65	4619	249-252
1973	22	4622	206-207
	22	4622	212
1959	9	4618	43-48
	9	4619	115-120
	17	4620	124-130
1946	19	159	16-24
	19	155	21, 27

GDIF FORM NO.10

Ministry of Northern Development and Mines

Ontario

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 417

(Map 1 of 1)

TOTTEN TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined

GEOLOGICAL DATA INVENTORY FOLIO 417

(Map 1 of 1)

TOTTEN TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

■ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area exploration.